

REMARKS

This Amendment, submitted in response to the Office Action dated December 10, 2007, is believed to be fully responsive to each point of rejection raised therein. Accordingly, favorable reconsideration on the merits is respectfully requested.

I. Summary of Office Action

Fig. 3 is objected to as allegedly failing to meet the requirements of 37 C.F.R. § 1.83(a). Claims 1-3 and 5-8 are rejected under 35 U.S.C. § 102(b) as allegedly being anticipated by Afrashteh et al. (U.S. Pat. 5,426,641; hereinafter referred to as “Afrashteh”).

Claim 4 is rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Afrashteh in view of Hirvilampi (U.S. Pat. 6,351,189).

Claims 9-15 are rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Afrashteh in view of Domino et al. (U.S. Pat. 6,259,752; hereinafter referred to as “Domino”).

II. Summary of Amendment

In this Amendment, Applicant amends claims 1-15 to more clearly define and distinguish the subject matter claimed therein from the references. Applicant also adds new claims 16-21 to more fully cover the present application.

No new matter is added.

Applicant respectfully requests entrance and allowance of the claims as amended.

III. Analysis of Drawing Objection

The Examiner alleges that Fig. 3 fails to show the power amplifier, transmitter, transmitting station and telecommunications system as described in the specification, while any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing (MPEP § 608.02(d)).

Applicant respectfully traverses the objection since Fig. 3 does not fail to satisfy the requirements imposed by the laws and rules of the U.S. patent practice.

The first sentence of 35 U.S.C § 113 requires a drawing to be submitted upon filing where such drawing is necessary for the understanding of the invention. Further, 37 C.F.R. §

1.83 (Content of drawing) provides that “[t]he drawing in a nonprovisional application must show every feature of the invention specified in the claims. However, conventional features disclosed in the description and claims, where their detailed illustration is not essential for a proper understanding of the invention, should be illustrated in the drawing in the form of a graphical drawing symbol or a labeled representation (*e.g.*, a labeled rectangular box).”

The present application provides a method and apparatus directed to an operating point of a transistor of a power amplifier used in a transmitter and/or a transmitting station. While detailed illustrations may be essential for a proper understanding of the power amplifier including the transistor throughout the application, the same may not be essential for a proper understanding of a transmitter, transmitting station and telecommunication system that may physically encompass the power amplifier having the transistor. This is because those transmitter, transmitting station and telecommunication system may comprise conventional components and features as generally known to one of ordinary skill in the art. Thus, those apparatuses are illustrated in Fig. 3 in the form of a labeled rectangular box to show how the power amplifier, transmitter, transmitting station and telecommunication system are configured about the transistor according to the last paragraph of page 7 of the specification.

Therefore, Applicant respectfully requests withdrawal of the objection to Fig. 3 that sufficiently enables one of ordinary skill in the art to understand the application.

IV. Analysis of § 102 Rejection

As noted above, claim 1 is amended, *inter alia*, to define the following aspects:

- (i) the TDM(A) signal comprises a plurality of data time slots and a plurality of null power time slots; and
- (ii) the detecting deviation of operating points, the detecting occurrence of null power time slots, and the adjusting a bias of a gate of the transistor of a power amplifier are performed during at least two separate null power time slots of the TDM(a) signal, wherein two of the at least two separate null power time slots occur before and after one data time slot, respectively.

The above amendments are supported at least in Fig. 2, page 3 (lines 1-2), the 2nd paragraph of the Summary of the Invention, and the 1st and 2nd paragraphs of page 6 of the specification.

At least based on the above amendments, Applicant respectfully submits that the claim is further distinguished from Afrashteh, because this reference discloses that measuring a drain current of the amplifier 203 and adjusting a gate voltage of the amplifier 203 (Fig. 2) are performed in only one “off” period between two successive transmit bursts.

More specifically, Afrashteh discloses that, during the “off” period of each frame, the drain current is measured and controlled by adjusting the gate voltage, which means the measuring and adjusting are performed during each frame comprising a transmit burst and an “off” period. If Afrashteh was to teach that the drain current is measured and adjusted across one transmit burst (by using “off” periods before and after the transmit burst), the reference would not have described that the operations are performed during the “off” period, because the off period does not include the transmit burst which indicates an “on” period.

It should be also noted that the present application is provided to address the problems of the method disclosed in Afrashteh, as described in the Background of the Invention of the specification.

At least under the above analysis, Applicant respectfully submits that the claimed method would not have been anticipated by Afrashteh.

Claims 2-3 and 5-8 should be allowable at least due to their dependencies and additionally recited elements.

IV. Analysis of § 103 Rejection

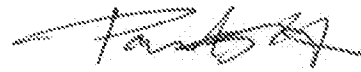
Claim 4 and 9-15 should be allowable at least due to their dependencies and additionally recited elements at least because Hirvilampi and Domino also fail to make up for the deficiencies of Afrashteh.

V. Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

Applicant herewith petitions the Director of the USPTO to extend the time for reply to the above-identified Office Action for an appropriate length of time if necessary. Unless a check is attached, any fee due under 37 U.S.C. § 1.17(a) is being paid via the USPTO Electronic Filing System (EFS). The USPTO is also directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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